

Corrigendum: Announcement: Cesa News 150:1, published on 22 December 2017.

In order to ensure that our studies continue with planned performance, this correction has to be made in the following way: Number of the participant from the molecular side changed to one, instead of two.
Prof. Dr. Ahmet Ömer Koçak

Research Article

<http://zoobank.org/References/6DF100FB-BB2A-4BEF-AFC2-7A4C326389A2>

Preliminary list of the Lepidoptera of Posof district (Ardahan Province, NE Turkey)

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Abstract: Preliminary list of the Lepidoptera of Posof district (Ardahan Province, NE Turkey).
Cesa News 156: 1-11, 8 figs.

In this paper, a preliminary list of the Lepidoptera recorded by the authors mainly in 2007-2010 from Posof district (Ardahan Province, NE Turkey) is published. Totally 245 species of 25 families are given in alphabetical order. To some species, short observational and faunistical notes are added. *Agonopterix arenella* is reported here as new to Turkey. Occurrence of *Apotomis capreana* in Turkey is confirmed here after a long period. This paper is also the first step, before realizing new eco-faunistic, taxonomic and molecular studies planned in 2018.

Key words: Lepidoptera, fauna, Posof, Ardahan, Turkey

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Posof is a mountainous district (Ardahan Province, NE Turkey), located near the boundary of Georgia (Fig.1). Its territory can be considered in the Transcaucasus, as its fauna and flora are very near to the Caucasus Mountain Range biogeographically. The Lepidoptera fauna of Posof and its environments have been partly studied by the authors between the years 2007 and 2010. However, the results of these excursions couldnot be published in time. Within this year, new lepidopterological trips to the district are planned by the present authors, in order to realize and submit a new perspective within the framework of the taxonomic, faunistic, zoogeographic, and molecular program. For the time being, a simple list concerning the previously recorded 245 species of the 25 families is given below.

Concerning the numerical values of the Lepidoptera fauna of Ardahan Province, two publications are remarkable here: In the past, the authors listed 214 species for Ardahan Province (Koçak & Kemal, 2007). Later, the authors reported 390 lepidopteran, 223 other pterygot species from Ardahan Province (Koçak & Kemal, 2014).

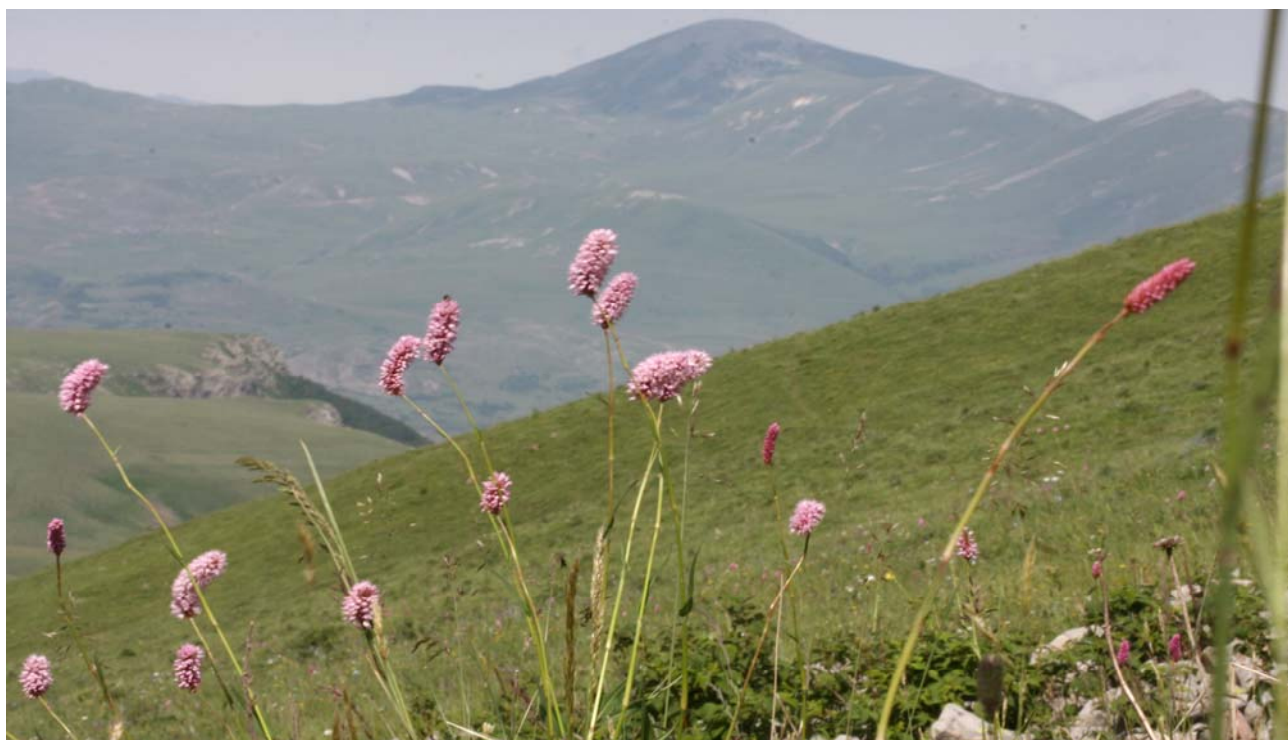


Fig. 1 - Ilgar Mountain 2500-3000m (Posof, Ardahan Pr., NE Turkey), 19 7 2009, M. Kemal (Cesa)

Lepidoptera of the Posof District

Butterflies

In the district totally 80 species of the 6 families have been recorded. The species are alphabetically arranged under their families.

Argynnidae

1. *Aglais urticae* (Linnaeus,1758). Common.
2. *Apatura ilia* ([Denis & Schiffermüller],1775). Rare in the stream bed, where *Populus*, *Salix* grow.
3. *Argynnis (Fabriciana) adippe* (Rottemburg,1775)
4. *Argynnis (Speyeria) aglaja* (Linnaeus,1758)
5. *Argynnis (s.str.) paphia* (Linnaeus,1758)
6. *Boloria (Clossiana) euphrosyne* (Linnaeus,1758) Together with the previous species inhabits in the woodland zone.

7. *Boloria (Procllossiana) eunomia* (Esper,[1799]). Once recorded from Ilgar Pass 2500m as photograph only, but never observed by the authors in the nature.
8. *Boloria (s.str.) caucasica* (Lederer,1852). Inhabits in alpine meadows.
9. *Brenthis hecate* ([Denis & Schiffermüller],1775)
10. *Euphydryas (Eurodryas) aurinia* (Rottemburg,1775)
11. *Inachis io* (Linnaeus,1758)
12. *Issoria lathonia* (Linnaeus,1758). These four species inhabit also in woodland zone.
13. *Limenitis (Azuritis) reducta* Staudinger,1901. Its caterpillars feed on *Lonicera* in the woodland.
14. *Limenitis (s.str.) camilla* (Linnaeus,1764). Sympatric with the previous species.
15. *Melitaea (Cinclidia) phoebe* (Goeze,1779)
16. *Melitaea (Didymaeformis) interrupta* Kolenati,1846
17. *Melitaea (Melicta) athalia* (Rottemburg,1775)
18. *Melitaea (Melicta) aurelia* (Nickerl,1850)
19. *Melitaea (s.str.) irka* Coutsis & Oorschot,2014. *Melitaea* species should be studied separately from taxonomical and molecular standpoints.
20. *Neptis (s.str.) rivularis* (Scopoli,1763). This is a rare woodland species. The authors recorded it from Akçay (Kağızman) previously (cf. Koçak & Kemal, 2012).
21. *Vanessa (Cynthia) cardui* (Linnaeus,1758)
22. *Vanessa (s.str.) atalanta* (Linnaeus,1758)

Hesperiidae

23. *Carcharodus (Lavatheria) lavatherae* (Esper,[1783])
24. *Erynnis (s.str.) tages* (Linnaeus,1758)
25. *Ochlodes venatus* (Bremer & Grey,[1852])
26. *Pyrgus alveus* (Hübner,[1803])
27. *Pyrgus armoricanus* (Oberthür,1910)
28. *Pyrgus jupei* (Alberti,1967). An alpine species, like *alveus*.
29. *Pyrgus sidae* (Esper,[1784])
30. *Thymelicus lineolus* (Ochsenheimer,1808)
31. *Thymelicus sylvestris* (Poda,1761)

Lycaenidae

32. *Callophrys chalybeitincta* Sovinsky,1905. This species was first recorded by Koçak (1977a) in Turkey.
33. *Callophrys rubi* (Linnaeus,1758)
34. *Cupido (Everes) argiades* (Pallas,1771)
35. *Lycaena (Alciphronia) alciphron* (Rottemburg,1775)
36. *Lycaena (Heodes) virgaureae* (Linnaeus,1758)
37. *Lycaena (Palaeochrysophanus) candens* (Herrich-Schäffer,[1845])
38. *Lycaena (Thersamonia) thetis* (Klug,1834)
39. *Lycaena (s.str.) phlaeas* (Linnaeus,1761)
40. *Maculinea arion* (Linnaeus,1758)
41. *Maculinea nausithous* (Bergsträßer,[1779])
42. *Maculinea rebeli* (Hirschke,1904). These *Maculinea* species inhabit in mountainous meadows.
43. *Plebejus (Lycaeides) argyrognomon* (Bergsträßer,[1779])
44. *Plebejus (Lycaeides) christophi* (Staudinger,1874)
45. *Polyommatus (Aricia (Eumedonia)) eumedon* (Esper,[1780]). This species was recorded by Koçak (1977a) from Posof.
46. *Polyommatus (Aricia (Ultraaricia)) anteros* (Freyer,[1838])
47. *Polyommatus (Aricia (s.str.)) artaxerxes* (Fabricius,1793)
48. *Polyommatus (s.str. (Agrodiaetus (Admetusia))) eriwanensis* (Forster,1960)
49. *Polyommatus (s.str. (Cyaniris)) bellis* (Freyer,[1842])
50. *Polyommatus (s.str. (Lysandra)) bellargus* (Rottemburg,1775)

51. *Polyommatus* (s.str. (*Lysandra*)) *corydonius* (Herrich-Schäffer,[1852])
52. *Polyommatus* (s.str. (*Meleageria*)) *daphnis* ([Denis & Schiffermüller],1775)
53. *Polyommatus* (s.str. (*Plebicula*)) *amandus* (Schneider,1792)
54. *Polyommatus* (s.str.) *icarus* (Rottemburg,1775)
55. *Quercusia quercus* (Linnaeus,1758)
56. *Satyrium* (*Nordmannia*) *acaciae* (Fabricius,1787)
57. *Satyrium* (*Nordmannia*) *ilicis* (Esper,[1779])
58. *Satyrium* (*Strymonidia*) *spini* (Fabricius,1787)

Papilionidae

59. *Iphiclides podalirius* (Linnaeus,1758)
60. *Papilio* (s.str.) *machaon* Linnaeus,1758
61. *Parnassius* (*Driopa*) *nordmanni* [Ménétries],[1850]. This alpine species inhabits at upper heights of Ilgar Mount.
62. *Parnassius* (s.str.) *apollo* (Linnaeus,1758). This species inhabits in the openings of the woodlands.

Pieridae

63. *Anthocharis cardamines* (Linnaeus,1758)
64. *Aporia* (s.str.) *crataegi* (Linnaeus,1758)
65. *Colias* (*Eriocolias*) *crocea* (Fourcroy,1785)
66. *Colias* (*Eriocolias*) *thisoa* Ménétries,1832. An alpine species.
67. *Colias* (*Neocolias*) *aurorina* Herrich-Schäffer,[1850]. An alpine, sub-alpine species.
68. *Gonepteryx* (s.str.) *ramni* (Linnaeus,1758)
69. *Pieris* (*Artogeia*) *pseudorapae* Verity,1908
70. *Pieris* (*Artogeia*) *rapae* (Linnaeus,1758)
71. *Pontia edusa* (Fabricius,1777)

Satyridae

72. *Coenonympha* (s.str.) *symphita* Lederer,1870. An alpine, sub-alpine species.
73. *Erebia aethiops* (Esper,[1777])
74. *Hipparchia* (*Parahipparchia*) *pellucida* (Stauder,1924)
75. *Hipparchia* (s.str.) *syriaca* (Staudinger,1871)
76. *Lasiommata maera* (Linnaeus,1758)
77. *Lasiommata megera* (Linnaeus,1767)
78. *Maniola* (s.str.) *jurtina* (Linnaeus,1758)
79. *Minois dryas* (Scopoli,1763)
80. *Pararge aegeria* (Linnaeus,1758)

Moths

In the district totally 165 species of the 19 families have been recorded. The species are alphabetically arranged under their families.

Adelidae

All the species of this family are diurnal.

81. *Adela violella* ([Denis & Schiffermüller],1775)
82. *Nemophora chrysochraon* (Razowski,1978)
83. *Nemophora degeerella* (Linnaeus,1758)

84. *Nemophora metallica* (Poda,1761)

Arctiidae

Mostly nocturnal.

- 85. *Arctia (Epicallia) villica* (Linnaeus,1758)
- 86. *Arctia (s.str.) caja* (Linnaeus,1758)
- 87. *Atolmis rubricollis* (Linnaeus,1758)
- 88. *Callimorpha dominula* (Linnaeus,1758). Also diurnal.
- 89. *Euplagia quadripunctaria* (Poda,1761). Also diurnal.
- 90. *Lithosia quadra* (Linnaeus,1758)
- 91. *Manulea (Agenjoa) lurideola* ([Zincken],1817)
- 92. *Manulea (s.str.) complana* (Linnaeus,1758)
- 93. *Setina aurata* (Ménétriés,1832). Also diurnal.
- 94. *Spiris striata* (Linnaeus,1758). Also diurnal.

Cosmopterigidae

- 95. *Pyroderces argyrogrammos* (Zeller,1847)

Ctenuchidae

- 96. *Dysauxes (Adautis) punctata* (Fabricius,1781)

Drepanidae

- 97. *Watsonalla binaria* (Hufnagel,1767)

Gelechiidae

- 98. *Isophrictis anthemidella* (Wocke,1871)

Geometridae

The members of this family are mostly nocturnal, and common in the woodland zone.

- 99. *Alcis repandata* (Linnaeus,1758)
- 100. *Aplocera plagiata* (Linnaeus,1758)
- 101. *Biston betularius* (Linnaeus,1758)
- 102. *Campaea margaritaria* (Linnaeus,1761)
- 103. *Chiasmia clathrata* (Linnaeus,1758)
- 104. *Chloroclysta siterata* (Hufnagel,1767)
- 105. *Cidaria fulvata* (Forster,1771). Also diurnal.
- 106. *Colostygia fezae* Hausmann,2011
- 107. *Colotois pennaria* (Linnaeus,1761)
- 108. *Crocallis (s.str.) transcaucasica* Wehrli,1940
- 109. *Cyclophora porata* (Linnaeus,1767)
- 110. *Epirrhoe alternata* (Müller,1764)
- 111. *Epirrhoe tristata* (Linnaeus,1758)
- 112. *Erannis defoliaria* (Linnaeus,1761)
- 113. *Eulithis prunata* (Linnaeus,1758)
- 114. *Eulithis pyraliata* ([Denis & Schiffermüller],1775)

115. *Euphyia biangulata* (Haworth,[1809])
116. *Eupithecia alliaria* Staudinger,1870
117. *Eupithecia denticulata* (Treitschke,1828)
118. *Geometra papilionaria* (Linnaeus,1758)
119. *Gnophos* (s.str.) *ciscaucasius* Rjabov,1964
120. *Heliomata glarearia* (Brahm,1791)
121. *Hydriomena furcata* (Thunberg,1784)
122. *Idaea aversata* (Linnaeus,1758)
123. *Idaea dimidiata* (Hufnagel,1767)
124. *Idaea rusticata* ([Denis & Schiffermüller],1775)
125. *Larerannis aurantiaria* (Hübner,[1799])
126. *Larerannis marginaria* (Fabricius,1777)
127. *Macaria liturata* (Linnaeus,1761)
128. *Macaria wauaria* (Linnaeus,1758)
129. *Orthostixis cribraria* (Hübner,[1799]). Also diurnal.
130. *Ourapteryx persica* Ménétériés,1832
131. *Philereme vetulata* ([Denis & Schiffermüller],1775)
132. *Rhodostrophia* (*Pellonia*) *vibicaria* (Linnaeus,1761)
133. *Scopula rubiginata* (Hufnagel,1767)
134. *Scotopteryx aelptes* (L.B.Prout,1937)
135. *Scotopteryx bipunctaria* ([Denis & Schiffermüller],1775). Also diurnal-crepuscular.
136. *Scotopteryx chenopodiata* (Linnaeus,1758). Also diurnal-crepuscular.
137. *Selenia lunularia* (Hübner,1788)
138. *Siona lineata* (Scopoli,1763). Also diurnal-crepuscular.
139. *Therapis flavicaria* ([Denis & Schiffermüller],1775). Also diurnal-crepuscular.
140. *Xanthorhoe* (s.str.) *montanata* ([Denis & Schiffermüller],1775)

Lasiocampidae

141. *Dendrolimus pini* (Linnaeus,1758)
142. *Lasiocampa piontkovskii* Sheljuzhko,1943
143. *Lasiocampa quercus* (Linnaeus,1758)

Lymantriidae

144. *Arctornis l-nigrum* (Müller,1764)
145. *Calliteara pudibunda* (Linnaeus,1758)
146. *Euproctis chrysorrhoea* (Linnaeus,1758)
147. *Leucoma salicis* (Linnaeus,1758)
148. *Lymantria monacha* (Linnaeus,1758)

Noctuidae

The members of this family are mostly nocturnal.

149. *Acontia* (*Emmelia*) *trabealis* (Scopoli,1763)
150. *Acronicta* (*Subacronicta*) *megacephala* (Fabricius,1787)
151. *Actinotia radiosa* (Esper,[1804])
152. *Agrochola* (*Anchoscelis*) *humilis* (Fabricius,1787)
153. *Agrotis* (s.str.) *clavis* (Hufnagel,1766)
154. *Agrotis* (s.str.) *exclamationis* (Linnaeus,1758)
155. *Allophytes* (s.str.) *asiatica* (Staudinger,1892)
156. *Amphipyra* (*Pyrois*) *cinnamomea* (Goeze,1781)
157. *Anaplectoides prasina* (Goeze,1781)
158. *Autographa bractea* ([Denis & Schiffermüller],1775)

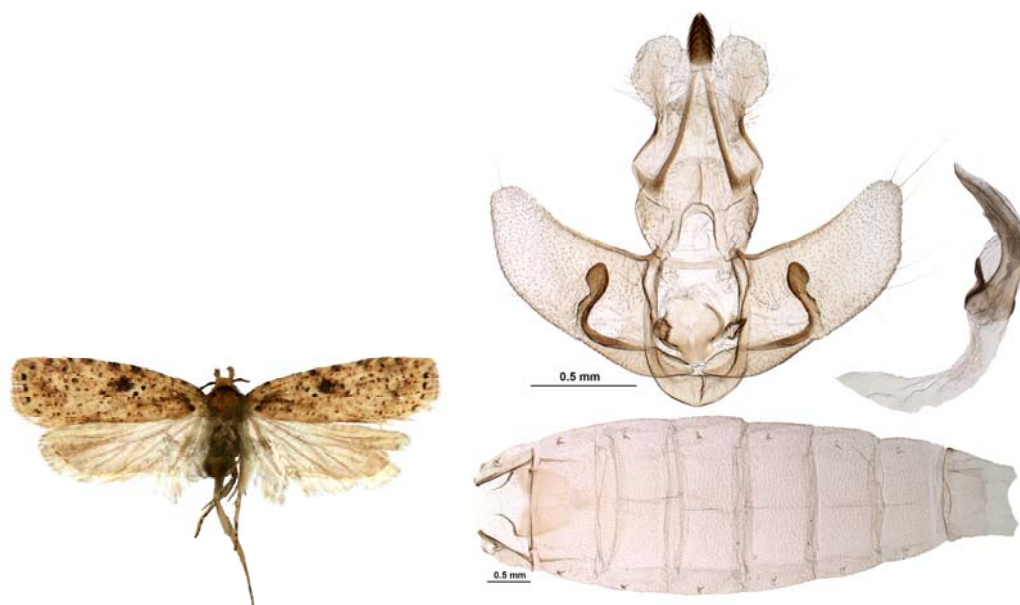
159. *Autographa gamma* (Linnaeus,1758)
160. *Autographa jota* (Linnaeus,1758)
161. *Axylia putris* (Linnaeus,1761)
162. *Brachylomia viminalis* (Fabricius,1777)
163. *Catocala* (s.str.) *fraxini* (Linnaeus,1758)
164. *Catocala* (s.str.) *promissa* ([Denis & Schiffermüller],1775)
165. *Chersotis* (*Cyrebia*) *adili* (Koçak,1987): Diurnal, rare on alpine meadows. Described originally from Rize Province.
166. *Chersotis* (*Cyrebia*) *anachoreta* (Herrich-Schäffer,[1851]): Diurnal, rare on alpine meadows.
167. *Chersotis* (*Cyrebia*) *luperinoides* Guenée,1852: Diurnal, sympatric with previous species and common on alpine meadows.
168. *Colocasia coryli* (Linnaeus,1758)
169. *Cosmia* (*Calymnia*) *trapezina* (Linnaeus,1758)
170. *Cryphia* (*Bryoleuca*) *seladona* (Christoph,1885)
171. *Cryphia* (*Bryopsis*) *amasina* (Draudt,1931)
172. *Dasypolia* (s.str.) *templi* (Thunberg,1792)
173. *Dichagyris* (*Albocosta*) *musiva* (Hübner,[1803])
174. *Earias clorana* (Linnaeus,1761)
175. *Euclidia glyphica* (Linnaeus,1758)
176. *Euxoa* (s.str.) *aquilina* ([Denis & Schiffermüller],1775)
177. *Euxoa* (s.str.) *birivia* ([Denis & Schiffermüller],1775)
178. *Euxoa* (s.str.) *montivaga* Fibiger,1997
179. *Euxoa* (s.str.) *nigricans* (Linnaeus,1761)
180. *Helicoverpa armigera* (Hübner,[1808]). Also diurnal.
181. *Heliopsis peltigera* ([Denis & Schiffermüller],1775). Also diurnal.
182. *Hoplodrina octogenaria* (Goeze,1781)
183. *Hypena proboscidalis* (Linnaeus,1758)
184. *Ipimorpha subtusa* (Fabricius,1787)
185. *Lygephila* (s.str.) *craccae* (Fabricius,1787)
186. *Melanchra persicariae* (Linnaeus,1761)
187. *Mythimna* (*Aletia*) *vitellina* (Hübner,[1808])
188. *Mythimna* (*Hyphilare*) *albipuncta* (Fabricius,1787)
189. *Polia nebulosa* (Hufnagel,1766)
190. *Polymixis* (s.str.) *xanthomista* (Hübner,[1819])
191. *Polypogon tarsipennalis* (Treitschke,1835)
192. *Pyrria umbra* (Hufnagel,1766)
193. *Schinia imperialis* (Staudinger,1871). Also diurnal.
194. *Tyta luctuosa* ([Denis & Schiffermüller],1775). Also diurnal.
195. *Xestia* (*Megasema*) *c-nigrum* (Linnaeus,1758)
196. *Xestia* (*Megasema*) *triangulum* (Hufnagel,1766)

Notodontidae

197. *Clostera curtula* (Linnaeus,1758)
198. *Furcula furcula* (Linnaeus,1761)

Oecophoridae

199. *Agonopterix arenella* ([Denis & Schiffermüller],1775). Nocturnal. New for the fauna of Turkey (Figs. 2, 3).
200. *Hypercallia citrinalis* (Scopoli,1763). Also diurnal.



Figs. 2, 3 - *Agonopterix arenella*. Upperside of male. Male genitalia and abdominal skin. GP2665. Turkey, Ardahan Prov., Posof 1460m, 12 8 2007, M. Kemal (Cesa)

Pterophoridae

201. *Platyptilia gonodactyla* ([Denis & Schiffermüller],1775). This nocturnal species was also reported by the authors from Bahçesaray (Van Prov. East Turkey). GP2550♂, GP2554♂, GP2557♂ (Kemal & Koçak, 2017). A male from Posof (1460m), was captured on 11 7 2007, leg. M. Kemal & A.Koçak, GP2097♂.
202. *Stenoptilia arida* (Zeller,1847). Nocturnal (Fig.4)

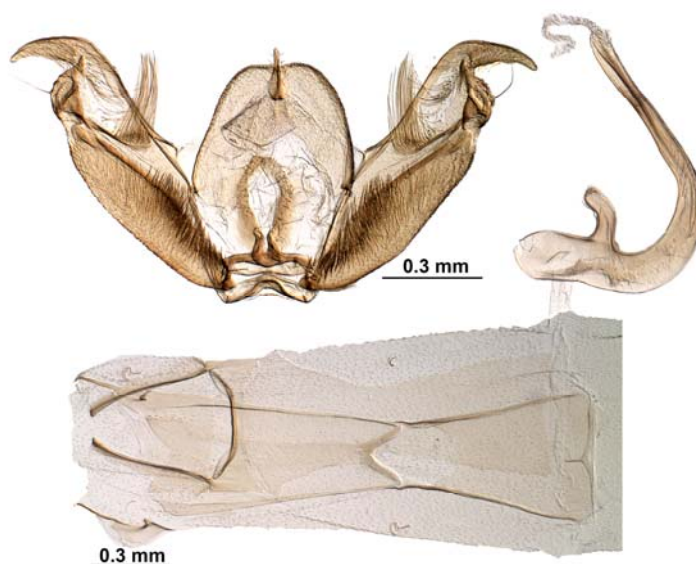


Fig. 4 – *Stenoptilia arida*. Male genitalia and abdominal skin. GP2733. Ardahan Prov., Posof 1460m, 11 7 2007, M. Kemal (Cesa)

Pyalidae

203. *Anania (Opsibotys) fuscalis* ([Denis & Schiffermüller],1775)
204. *Catoptria colchicella* (Lederer,1870)
205. *Catoptria incertella* (Herrich-Schäffer,[1852])

- 206. *Dioryctria sylvestrella* (Ratzeburg, 1840)
- 207. *Epascestria pustulalis* (Hübner, [1823])
- 208. *Eucarphia vinetella* (Fabricius, 1787)
- 209. *Eurhodope* (s.str.) *rosella* (Scopoli, 1763)
- 210. *Homoeosoma sinuellum* (Fabricius, 1794)
- 211. *Hypsopygia costalis* (Fabricius, 1775)
- 212. *Lymphia chalybella* (Eversmann, 1844)
- 213. *Nyctegretis lineana* (Scopoli, 1786)
- 214. *Oncocera semirubella* (Scopoli, 1763)
- 215. *Patania ruralis* (Scopoli, 1763)
- 216. *Pyrausta cingulata* (Linnaeus, 1758)
- 217. *Udea ferrugalis* (Hübner, 1796)
- 218. *Udea olivalis* ([Denis & Schiffermüller], 1775)

Saturniidae

- 219. *Saturnia* (*Heraea*) *pavonia* (Linnaeus, 1758)
- 220. *Saturnia* (*Perisomena*) *caecigena* Kupido, 1825

Sphingidae

- 221. *Hemaris* (s.str.) *syra* (Daniel, 1939). Diurnal.
- 222. *Hyles livornica* (Esper, [1780])
- 223. *Laothoe populeti* (Bienert, [1870])
- 224. *Macroglossum stellatarum* (Linnaeus, 1758). Diurnal.

Tortricidae

- 225. *Agapeta hamana* (Linnaeus, 1758)
- 226. *Apotomis capreana* (Hübner, [1817]) (Figs. 5, 6)

This species was reported by Rebel (1908) from “ ” for the first time for Turkey. After 110 years, the presence of this species in Turkey is confirmed here. The Posof record is also new to Ardahan Province (GP2886♂).



Figs. 5, 6 – *Apotomis capreana*. Upperside of male (top). Male genitalia, GP2886. Turkey, Ardahan Prov. Posof, M. Kemal (Cesa)

227. *Agapeta zoegana* (Linnaeus,1767)
 228. *Celypha rivulana* (Scopoli,1763). Diurnal-nocturnal. (Fig.7)
 229. *Croesia holmiana* (Linnaeus,1758)
 230. *Eana (Eutrachia) goiana* (Linnaeus,1761)
 231. *Endothenia marginana* (Haworth,[1811])
 232. *Epiblema foenellum* (Linnaeus,1758)
 233. *Hedya salicella* (Linnaeus,1758)
 234. *Notocelia incarnatana* (Hübner,[1800])
 235. *Olethreutes (s.str.) arcuana* (Linnaeus,1761). Diurnal-nocturnal (Fig.8)
 236. *Phtheochroa purana* (Guenée,1845)
 237. *Thiodia citrana* (Hübner,[1799]). Diurnal-nocturnal.
 238. *Tortrix viridana* (Linnaeus,1758). Diurnal-nocturnal; also a serious pest.



Figs. 7,8 - *Celypha rivulana*. At rest, Posof 1450m, on 17 2010 (left); *Olethreutes (s.str.) arcuana*. At rest. Posof 1450m, 12 7 2007 (right), M. Kemal (Cesa)

Yponomeutidae

239. *Plutella xylostella* (Linnaeus,1758). Diurnal-nocturnal. Common.

Zygaenidae

The family members are diurnal. Several species can be found sympatrically (Kemal & Koçak, 2010).

240. *Zygaena (Agrumenia) armena* Eversmann,1851. Confined to NE Turkey. Uncommon.
 241. *Zygaena (Agrumenia) carniolica* (Scopoli,1763). Common.
 242. *Zygaena (Agrumenia) loti* ([Denis & Schifferrmüller],1775). Common.
 243. *Zygaena (Mesembrynus) purpuralis* (Brünnich,1763). Common.
 244. *Zygaena (s.str.) dorycnii* Ochsenheimer,1808. This species was reported by Koçak (1977b) from Posof.
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